Fig. 1A

(PRIOR ART)

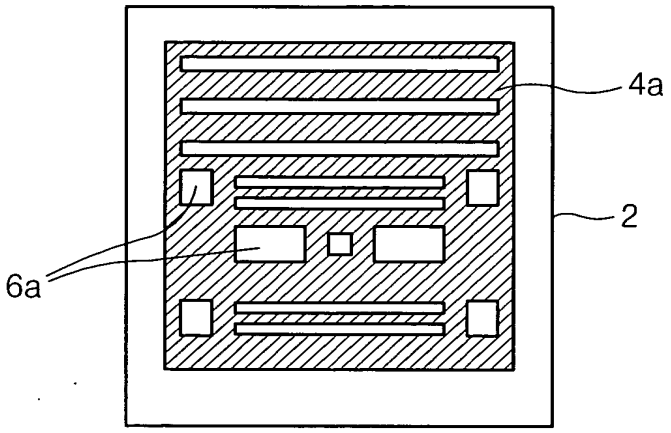


Fig. 1B

(PRIOR ART)

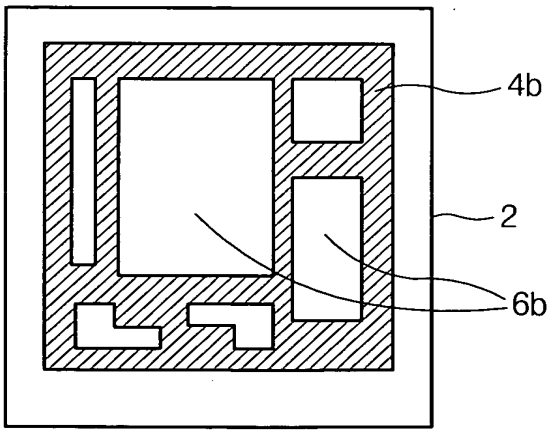


Fig. 2A

(PRIOR ART)

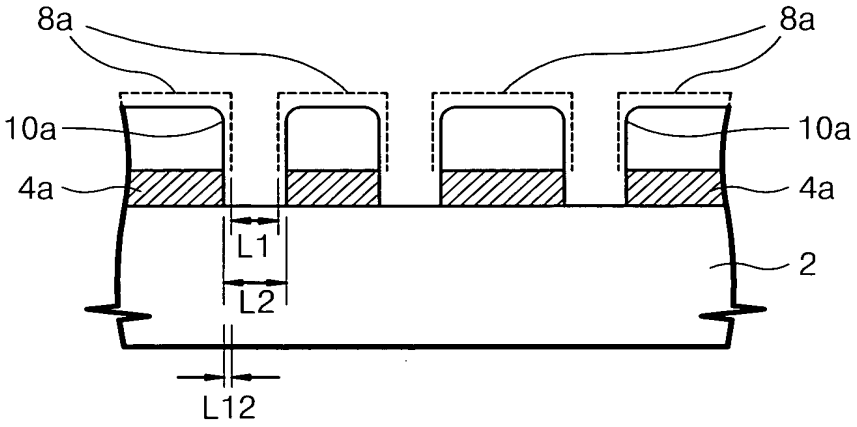


Fig. 2B

(PRIOR ART)

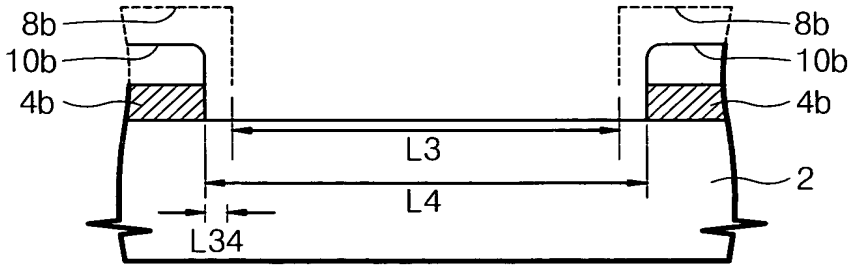


Fig. 3A

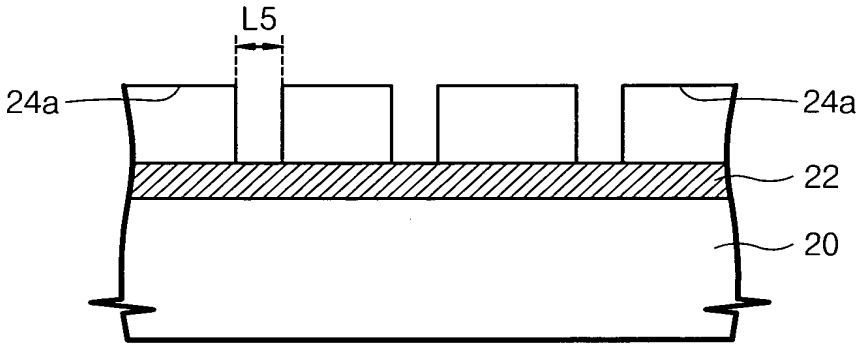


Fig. 3B

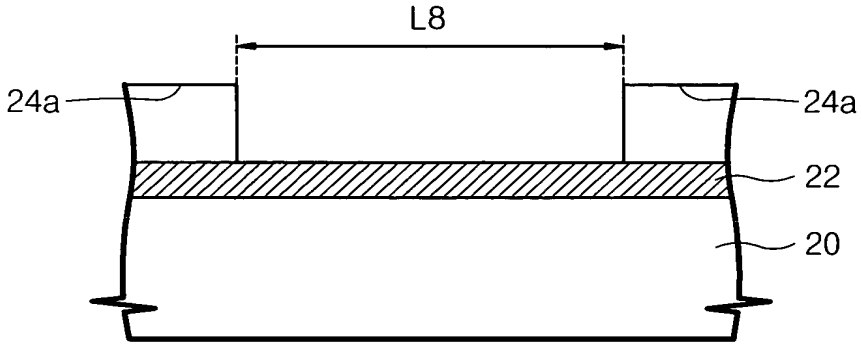


Fig. 4A

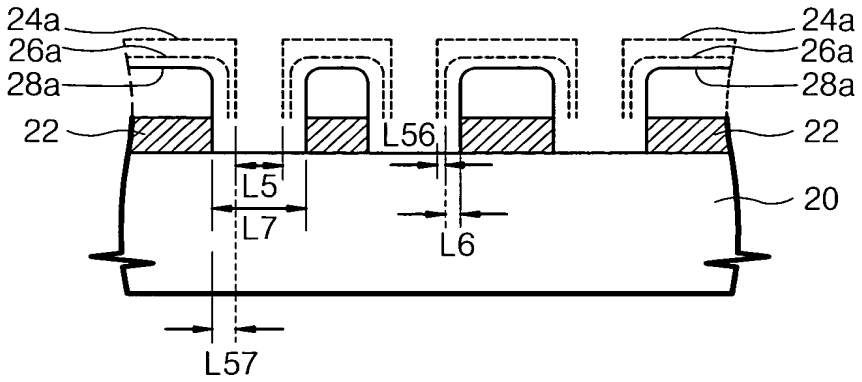

24a
26a
28a
22
L56
L5
L7
L6
L57
20
24a
26a
28a
22

Fig. 4B

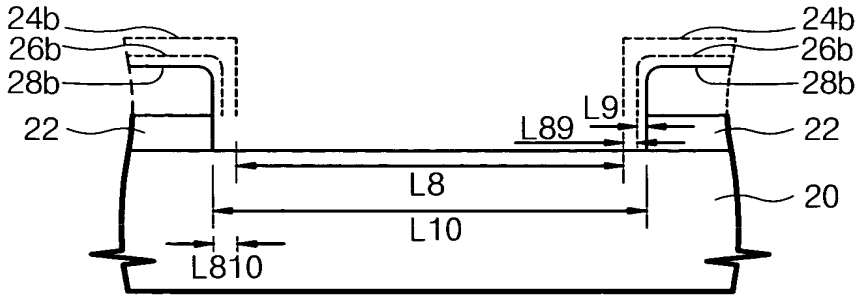

24b
26b
28b
22
L89
L9
L8
L10
L810
20
24b
26b
28b
22

Fig. 5

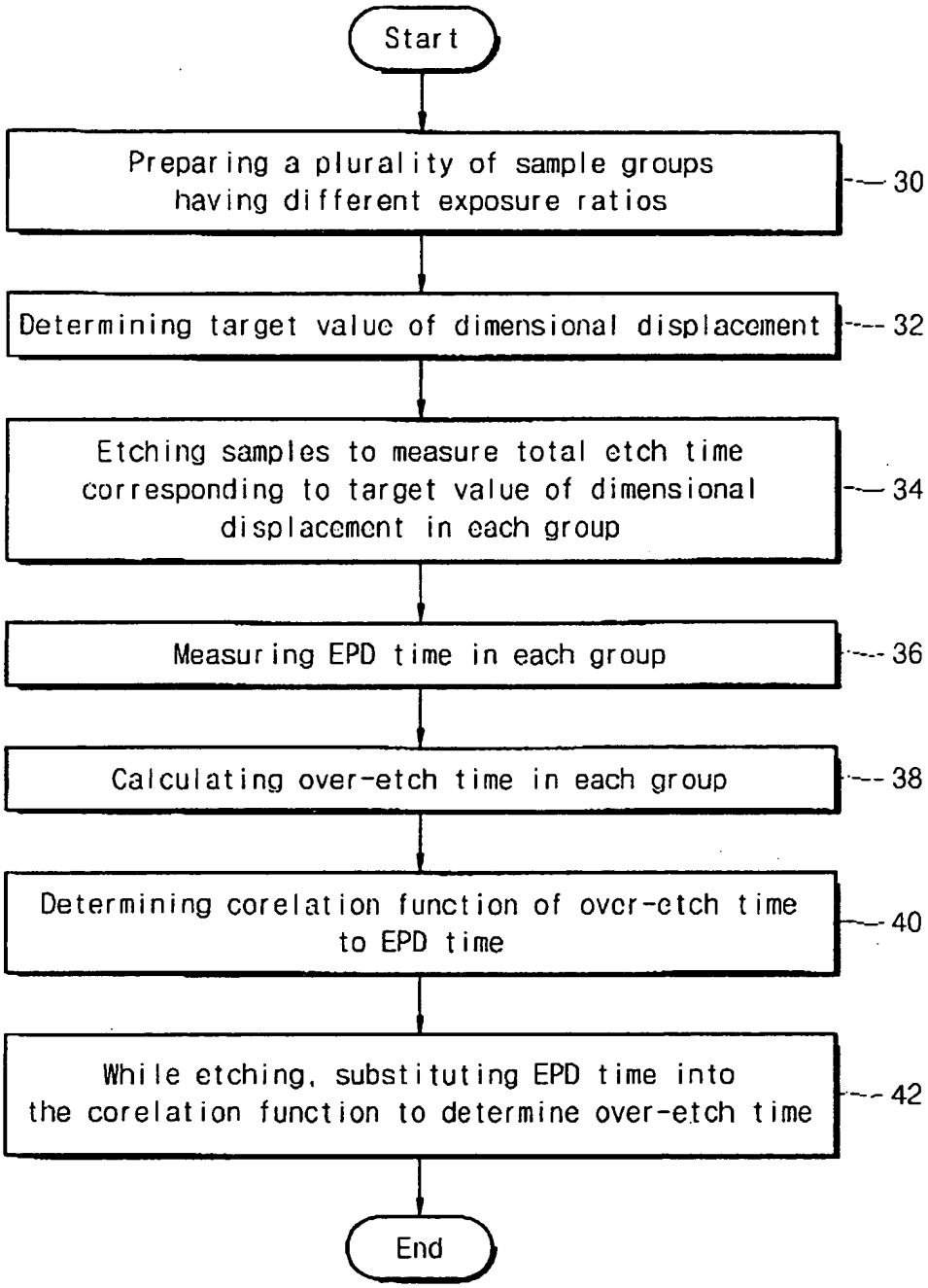
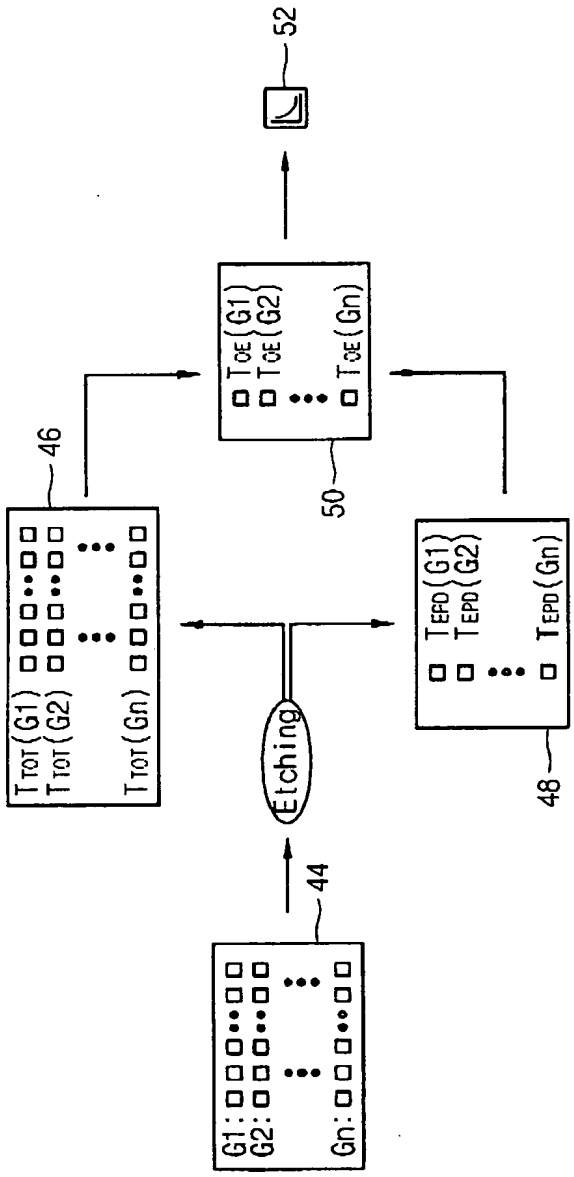

Start
Preparing a plurality of sample groups having different exposure ratios
30
Determining target value of dimensional displacement
32
Etching samples to measure total etch time corresponding to target value of dimensional displacement in each group
34
Measuring EPD time in each group
36
Calculating over-etch time in each group
38
Determining corelation function of over-etch time to EPD time
40
While etching, substituting EPD time into the corelation function to determine over-etch time
42
End

Fig. 6


52
$T_{OE}(G1)$
$T_{OE}(G2)$
$T_{OE}(Gn)$
50
46
$T_{TOT}(G1)$
$T_{TOT}(G2)$
$T_{TOT}(Gn)$
Etching
$T_{EPD}(G1)$
$T_{EPD}(G2)$
$T_{EPD}(Gn)$
48
G1:
G2:
Gn:
44

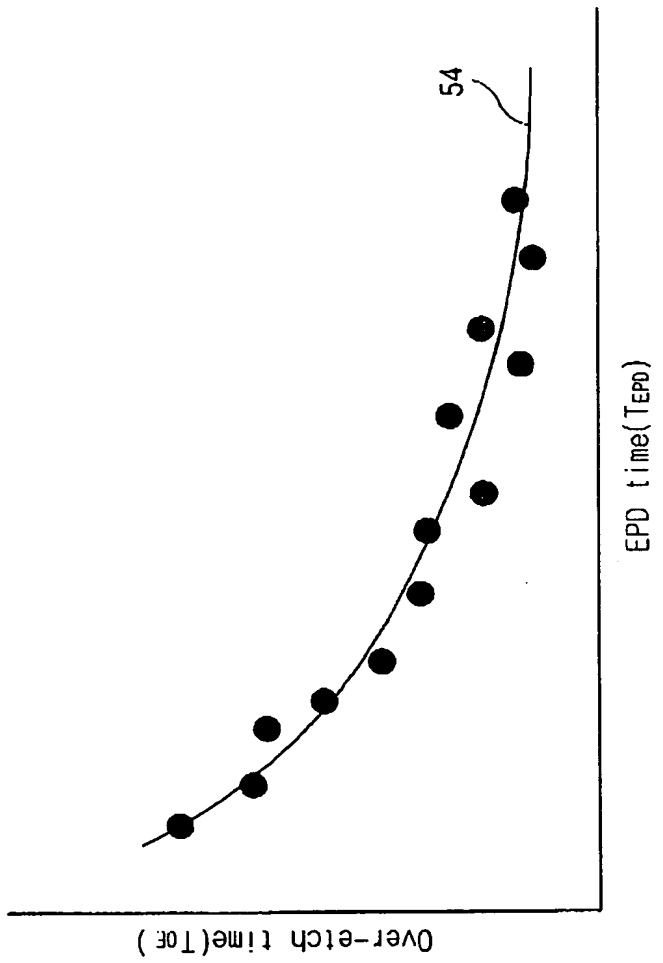



Fig. 7